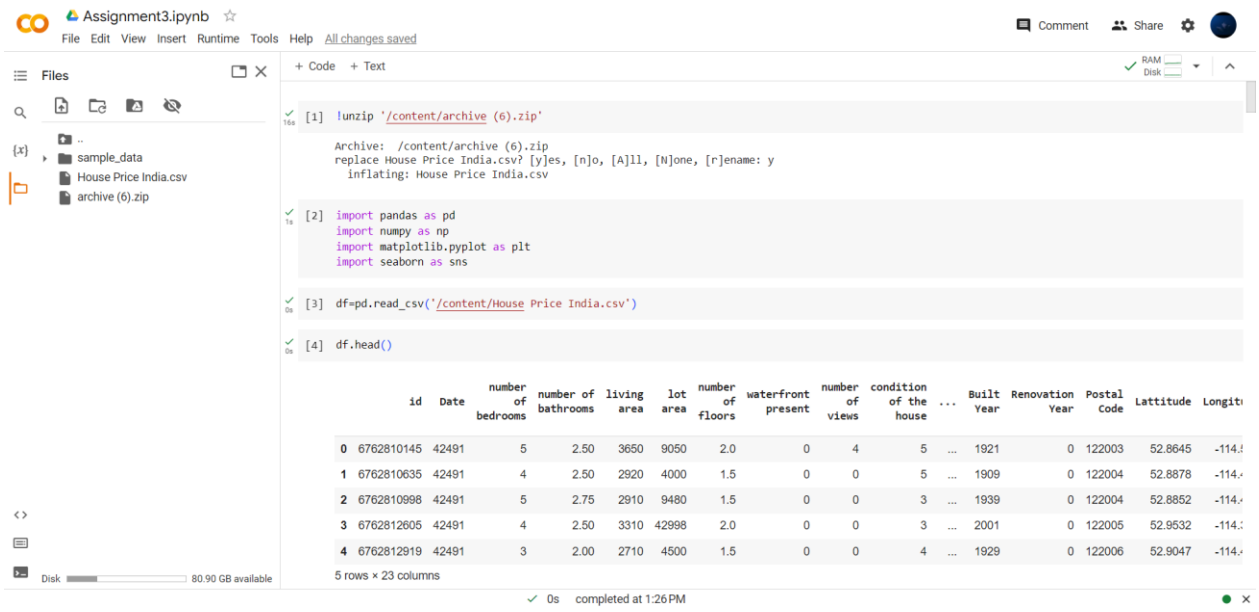
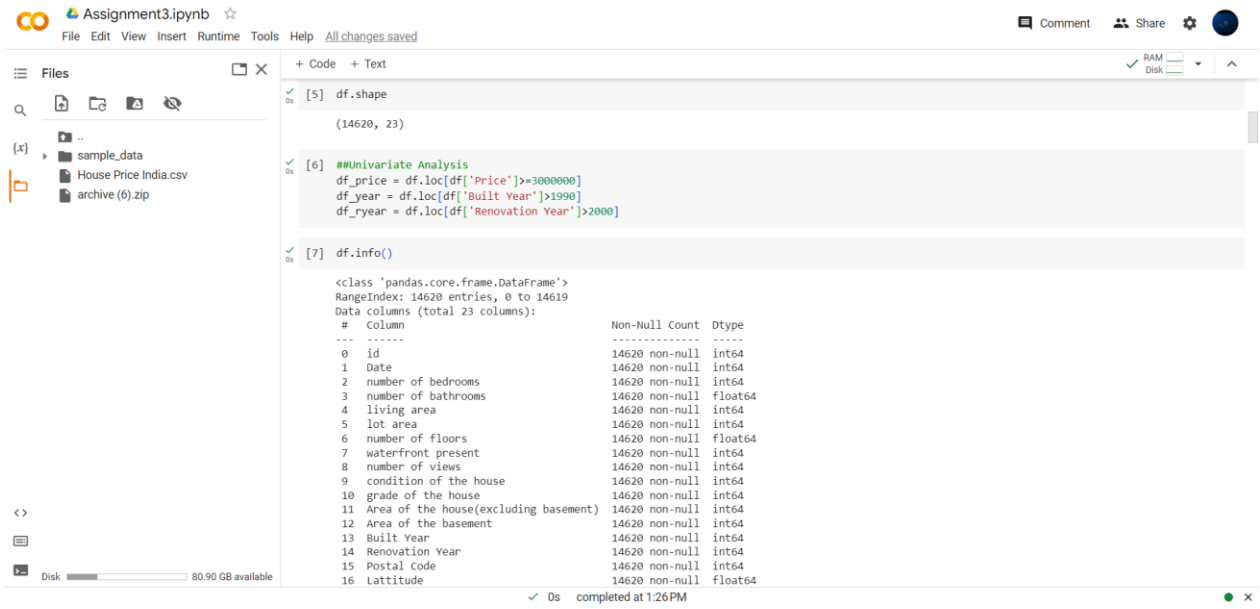
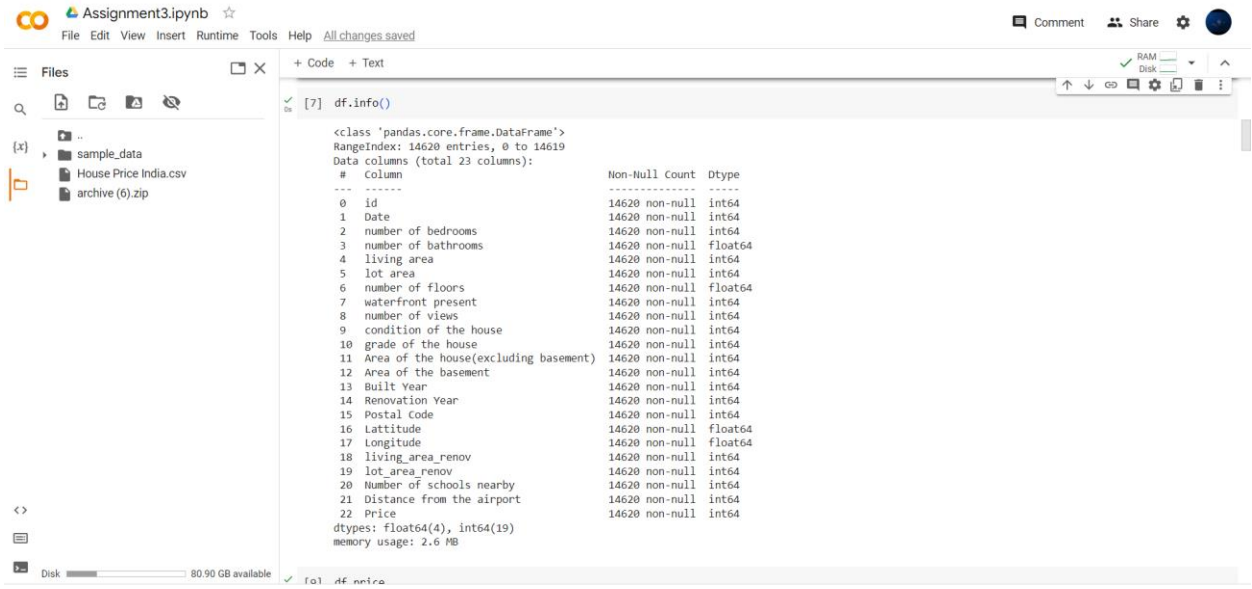
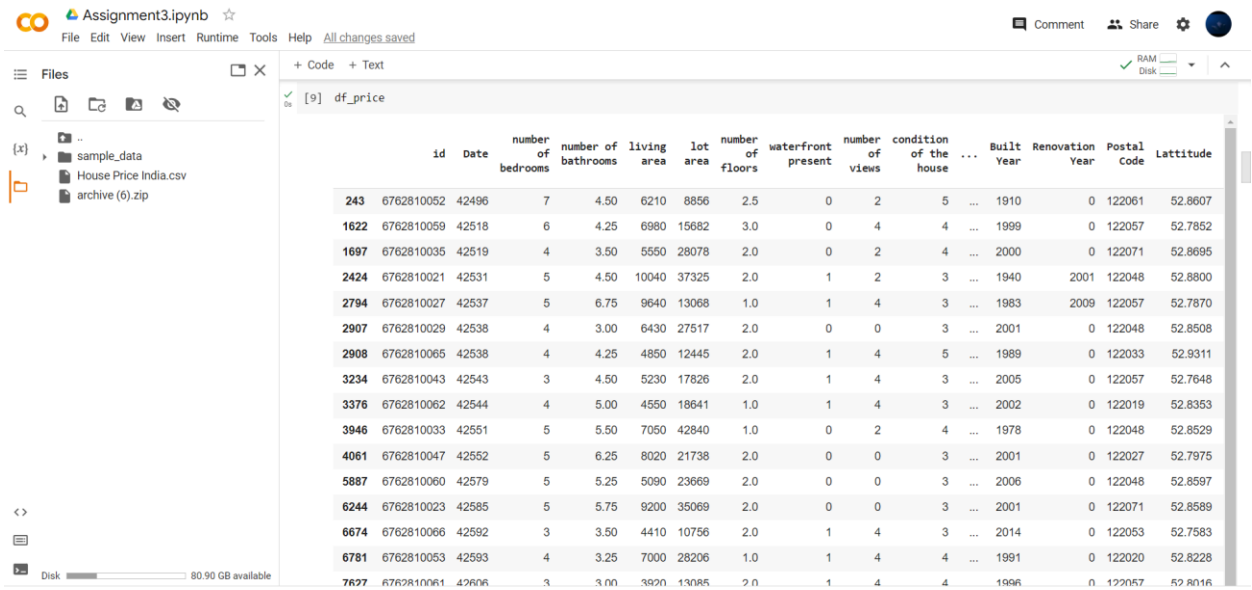
HOUSE PRICE INDIA

NAME: SHALINI P R P









	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	...	Built Year	Renovation Year	Postal Code	Lattitude
243	6762810052	42496	7	4.50	6210	8856	2.5	0	2	5	...	1910	0	122061	52.8607
1622	6762810059	42518	6	4.25	6980	15682	3.0	0	4	4	...	1999	0	122057	52.7852
1697	6762810035	42519	4	3.50	5550	28078	2.0	0	2	4	...	2000	0	122071	52.8695
2424	6762810021	42531	5	4.50	10040	37325	2.0	1	2	3	...	1940	2001	122048	52.8800
2794	6762810027	42537	5	6.75	9640	13068	1.0	1	4	3	...	1983	2009	122057	52.7870
2907	6762810029	42538	4	3.00	6430	27517	2.0	0	0	3	...	2001	0	122048	52.8508
2908	6762810065	42538	4	4.25	4850	12445	2.0	1	4	5	...	1989	0	122033	52.9311
3234	6762810043	42543	3	4.50	5230	17826	2.0	1	4	3	...	2005	0	122057	52.7648
3376	6762810062	42544	4	5.00	4550	18641	1.0	1	4	3	...	2002	0	122019	52.8353
3946	6762810033	42551	5	5.50	7050	42840	1.0	0	2	4	...	1978	0	122048	52.8529
4061	6762810047	42552	5	6.25	8020	21738	2.0	0	0	3	...	2001	0	122027	52.7975
5887	6762810060	42579	5	5.25	5090	23669	2.0	0	0	3	...	2006	0	122048	52.8597
6244	6762810023	42585	5	5.75	9200	35069	2.0	0	0	3	...	2001	0	122071	52.8589
6674	6762810066	42592	3	3.50	4410	10756	2.0	1	4	3	...	2014	0	122053	52.7583
6781	6762810053	42593	4	3.25	7000	28206	1.0	1	4	4	...	1991	0	122020	52.8228
7627	6762810061	42606	3	3.00	3920	13085	2.0	1	4	4	...	1996	0	122057	52.8016

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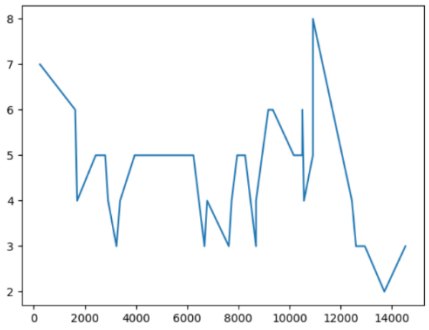
[9]

10503	6762810020	42655	6	8.00	12050	27600	2.5	0	3	4	...	1910	1987	122013	52.8598
10566	6762810031	42656	4	5.50	7080	16573	2.0	0	0	3	...	2008	0	122071	52.8451
10915	6762810026	42662	5	5.25	8010	45517	2.0	1	4	3	...	1999	0	122010	52.9067

```
[10] plt.plot(df_price['number of bedrooms'])
```

```
[<matplotlib.lines.Line2D at 0x7803cca9ca60>]
```



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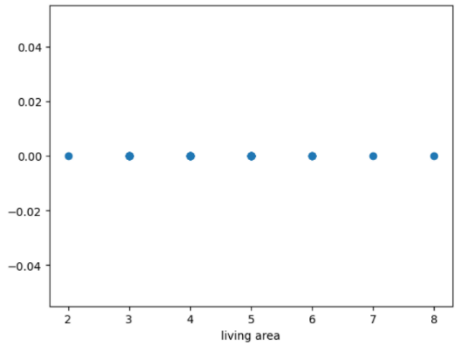
```
[11] plt.plot(df_price['number of bedrooms'],np.zeros_like(df_price['number of bedrooms']),'o')
     plt.xlabel('living area')
```

```
Text(0.5, 0, 'living area')
```




```
[15] plt.plot(df_ryear['Renovation Year'],np.zeros_like(df_ryear['Renovation Year']),'o')
     plt.plot(df_year['Built Year'],np.zeros_like(df_year['Built Year']),'v')
     #plt.show()
```

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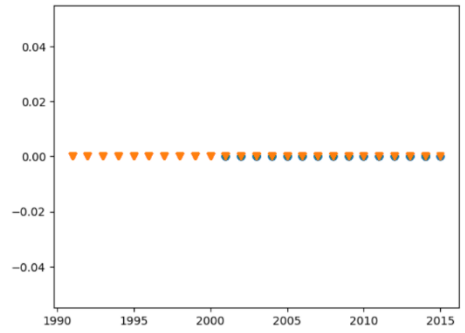
```
[15] plt.plot(df_ryear['Renovation Year'],np.zeros_like(df_ryear['Renovation Year']),'o')
     plt.plot(df_year['Built Year'],np.zeros_like(df_year['Built Year']),'v')
     #plt.show()
```

```
[<matplotlib.lines.Line2D at 0x7803cb76db70>]
```




```
[16] df_lot1 = df.loc[df['lot area']==10]
     df_lot2 = df.loc[df['lot area']==9]
     df_lot3 = df.loc[df['lot area']==8]
```

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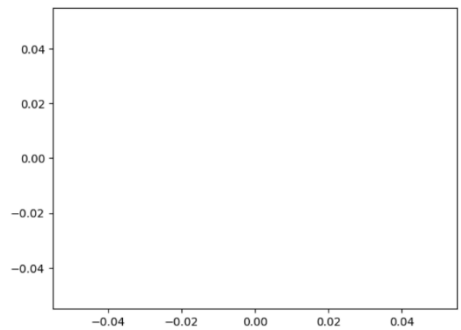
```
[17] plt.plot(df_lot1['Price'],np.zeros_like(df_lot1['Price']),'o')
     plt.plot(df_lot2['Price'],np.zeros_like(df_lot2['Price']),'o')
     plt.plot(df_lot3['Price'],np.zeros_like(df_lot3['Price']),'o')
     plt.show()
```




```
[18] plt.figure(figsize=(46,46))
     sns.heatmap(df.corr(),annot=True)
     plt.show()
```

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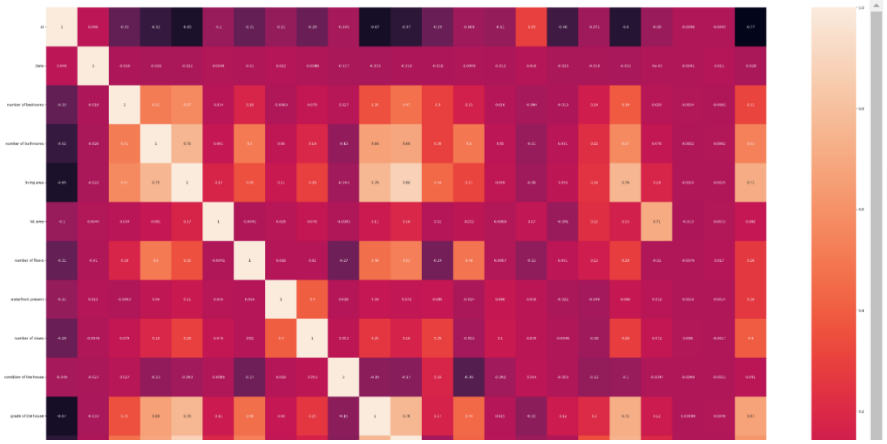
```
[18] plt.figure(figsize=(46,46))
     sns.heatmap(df.corr(),annot=True)
     plt.show()
```



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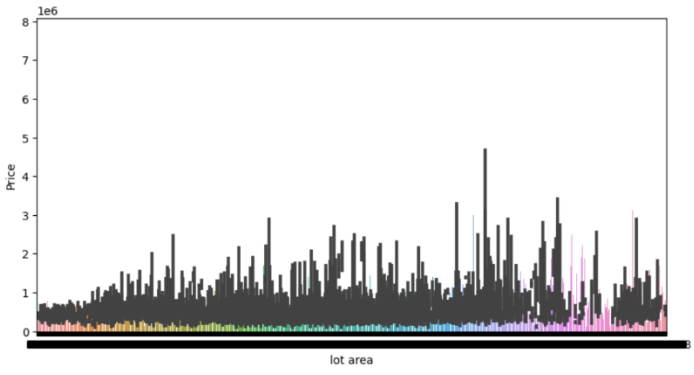
```
[19] plt.figure(figsize=(10,5))
     sns
     sns.barplot(data=df,x='lot area',y='Price')
```

```
<Axes: xlabel='lot area', ylabel='Price'>
```



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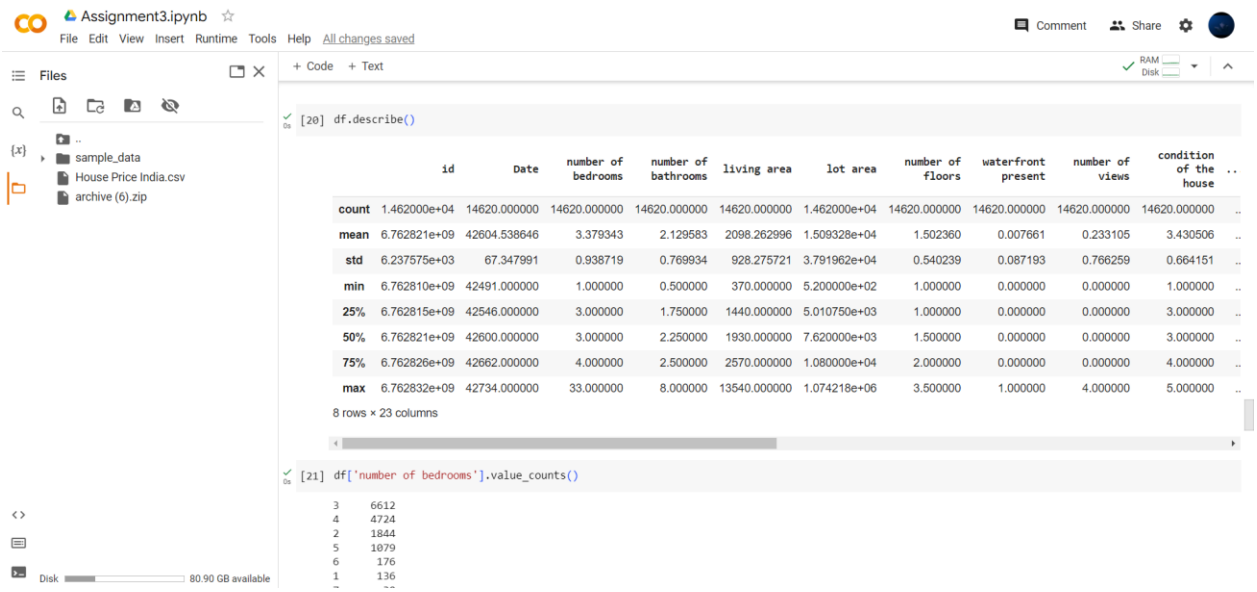
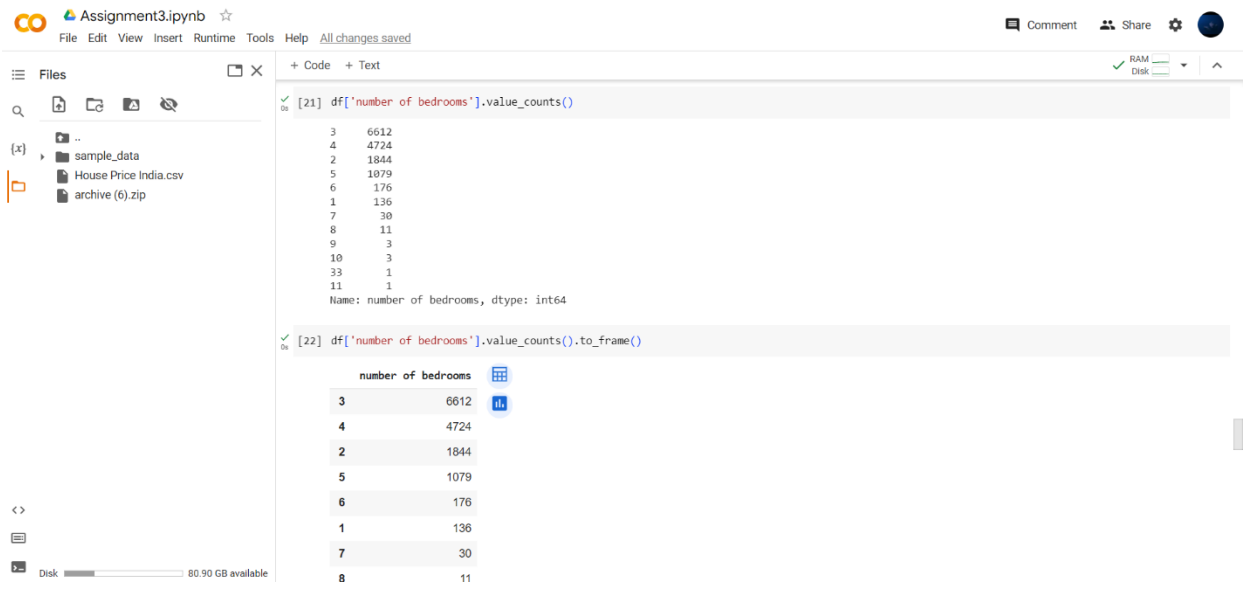
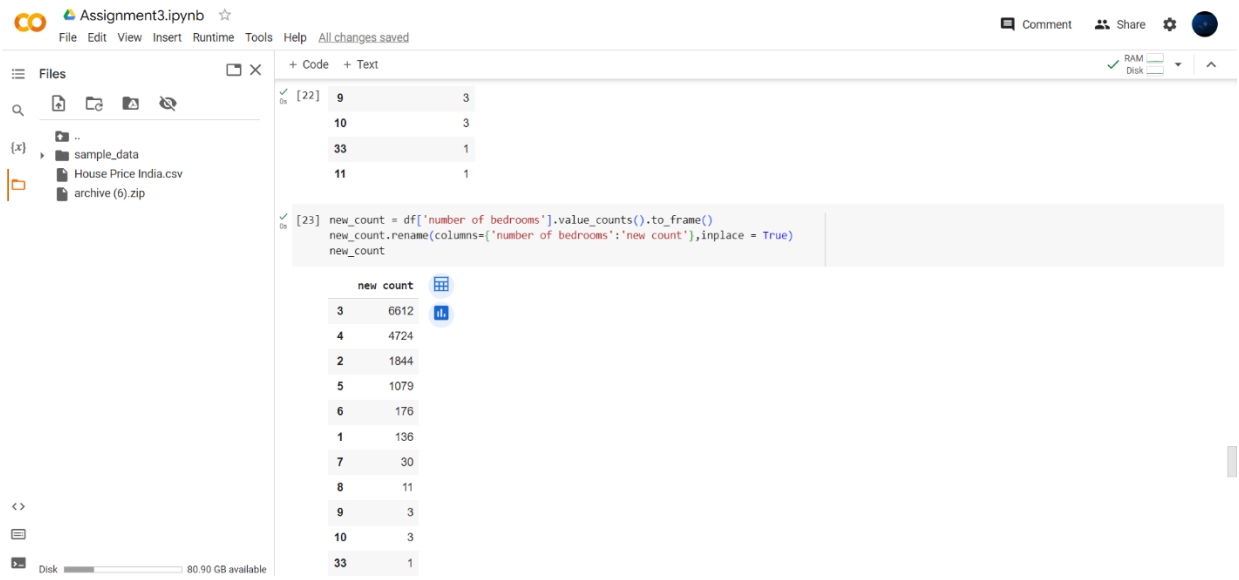


	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	..
count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	..
mean	6.762821e+09	42604.538646	3.379343	2.129583	2098.262996	1.509328e+04	1.502360	0.007661	0.233105	3.430506	..
std	6.237575e+03	67.347991	0.938719	0.769934	928.275721	3.791962e+04	0.540239	0.087193	0.766259	0.664151	..
min	6.762810e+09	42491.000000	1.000000	0.500000	370.000000	5.200000e+02	1.000000	0.000000	0.000000	1.000000	..
25%	6.762815e+09	42546.000000	3.000000	1.750000	1440.000000	5.010750e+03	1.000000	0.000000	0.000000	3.000000	..
50%	6.762821e+09	42600.000000	3.000000	2.250000	1930.000000	7.620000e+03	1.500000	0.000000	0.000000	3.000000	..
75%	6.762826e+09	42662.000000	4.000000	2.500000	2570.000000	1.080000e+04	2.000000	0.000000	0.000000	4.000000	..
max	6.762832e+09	42734.000000	33.000000	8.000000	13540.000000	1.074218e+06	3.500000	1.000000	4.000000	5.000000	..

8 rows × 23 columns



	number of bedrooms
3	6612
4	4724
2	1844
5	1079
6	176
1	136
7	30
8	11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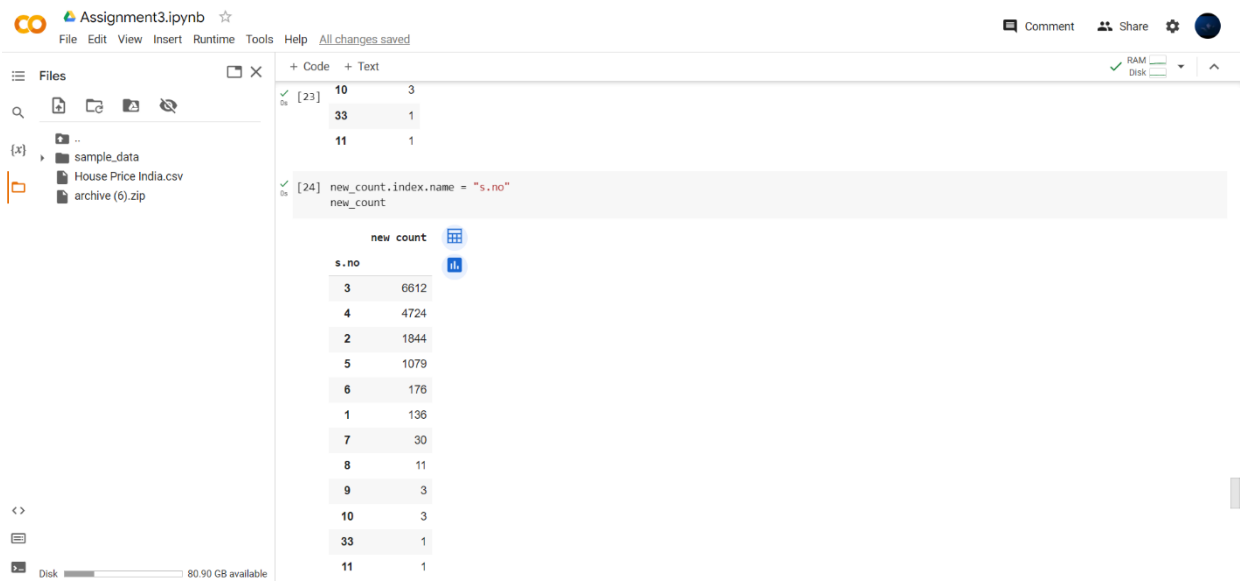
[22]
9 3
10 3
33 1
11 1
[23] new_count = df['number of bedrooms'].value_counts().to_frame()
new_count.rename(columns={'number of bedrooms':'new count'},inplace = True)
new_count
new count
3 6612
4 4724
2 1844
5 1079
6 176
1 136
7 30
8 11
9 3
10 3
33 1
Disk 80.90 GB available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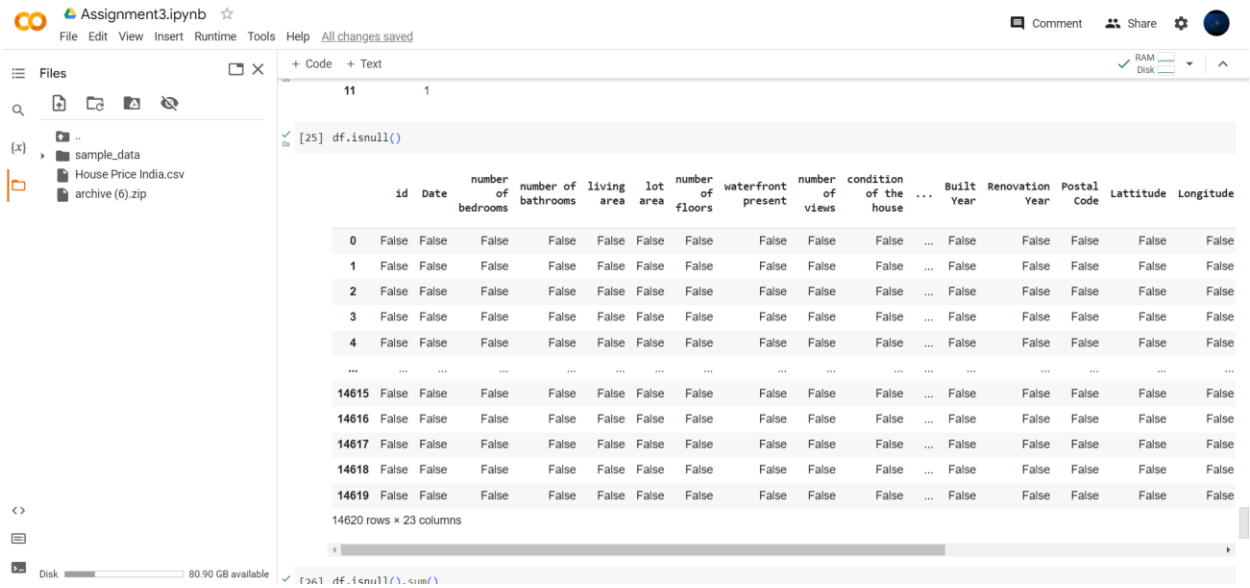
RAM
Disk
[23]
10 3
33 1
11 1
[24] new_count.index.name = "s.no"
new_count
new count
s.no
3 6612
4 4724
2 1844
5 1079
6 176
1 136
7 30
8 11
9 3
10 3
33 1
11 1
Disk 80.90 GB available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11 1
[25] df.isnull()
id Date number of bedrooms number of bathrooms living area lot area number of floors waterfront present number of views condition of the house ... Built Year Renovation Year Postal Code Lattitude Longitude
0 False False False False False False False False False False ... False False False False False
1 False False False False False False False False False False ... False False False False False
2 False False False False False False False False False False ... False False False False False
3 False False False False False False False False False False ... False False False False False
4 False False False False False False False False False False ... False False False False False
... ...
14615 False False False False False False False False False False ... False False False False False
14616 False False False False False False False False False False ... False False False False False
14617 False False False False False False False False False False ... False False False False False
14618 False False False False False False False False False False ... False False False False False
14619 False False False False False False False False False False ... False False False False False
14620 rows × 23 columns
[26] df.isnull().sum()
sample_data
House Price India.csv
archive (6).zip
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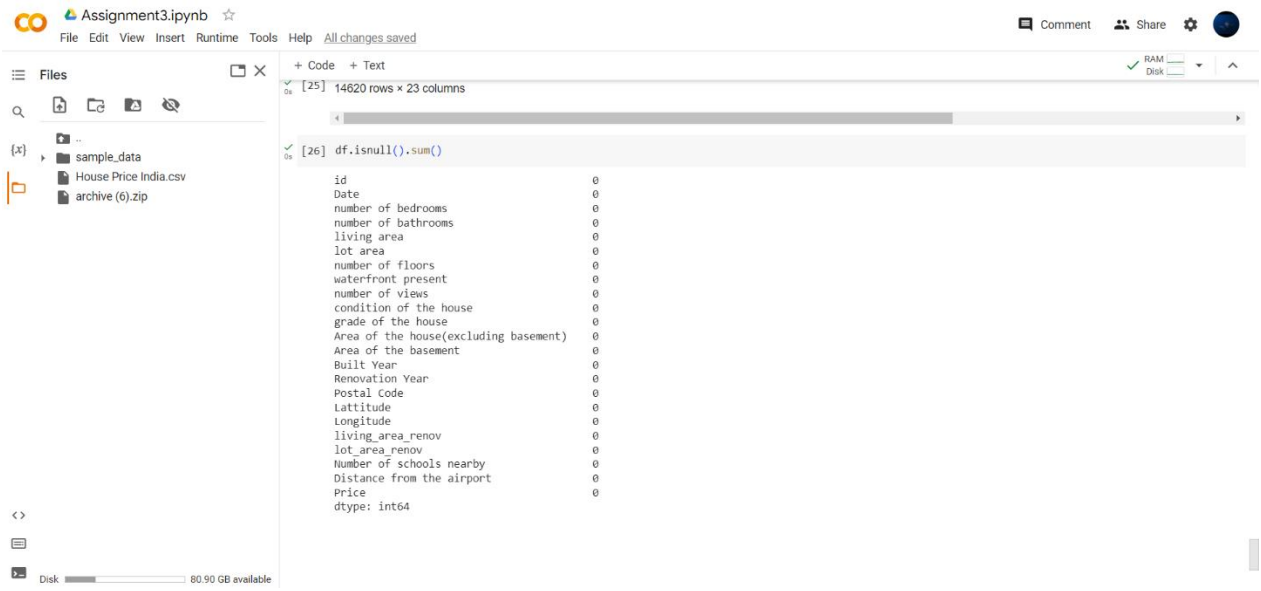
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[25] 14620 rows × 23 columns
[26] df.isnull().sum()
id 0
Date 0
number of bedrooms 0
number of bathrooms 0
living area 0
lot area 0
number of floors 0
waterfront present 0
number of views 0
condition of the house 0
grade of the house 0
Area of the house(excluding basement) 0
Area of the basement 0
Built Year 0
Renovation Year 0
Postal Code 0
Lattitude 0
Longitude 0
living_area_renov 0
lot_area_renov 0
Number of schools nearby 0
Distance from the airport 0
Price 0
dtype: int64
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House Price India.csv
archive (6).zip
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